

PENDING CLAIMS AS AMENDED

Please amend claims 8-11, 14 and 16, amend claims 15 and 17 and add new claims 23-29 as follows:

1. (Original) In a wireless communication system having a rake receiver with multiple fingers, a method comprising:
 - determining a lock state for a first finger of the multiple fingers;
 - determining a comparison of received signal energy for the first finger to a threshold value if the first finger is out of lock; and
 - adjusting a lock filter for processing signals received on the first finger in response to the comparison.
2. (Original) The method as in claim 1, further comprising:
 - waiting a first time period if the first finger is out of lock before adjusting the lock filter.
3. (Original) The method of claim 1, wherein adjusting the lock filter further comprises:
 - providing an output of the lock filter equal to the received signal when the energy of the received signal is greater than the threshold; and
 - increasing an energy level of the lock filter when the energy of the received signal is less than the threshold.
4. (Original) The method of claim 1, further comprising:
 - determining a comparison of filtered signal energy for the first finger to a second threshold after adjusting the lock filter; and
 - reassigning a path to the first finger in response to the comparison.

5. (Original) The method of claim 4, further comprising:
maintaining path assignments to the multiple fingers for a predetermined time period.
6. (Previously Presented) The method of claim 1, further comprising:
determining if a transmitter of the received signal is in soft handoff; and
providing power control instructions as a function of the energy of the received signal if
the transmitter is in soft handoff.
7. (Original) The wireless apparatus performing the method of claim 5, further
comprising:
instructing the transmitter to gradually adjust transmit power.
8. (Currently Amended) A transceiver, comprising:
a rake receiver having a plurality of fingers, the plurality of fingers adapted to
receive multipath signals; and
a lock detector coupled to the rake receiver operative to adjust signal filtering
based on a comparison of a received signal energy for a first finger to a threshold value if
said first finger is out of lock.
9. (Currently Amended) The transceiver of claim 8, wherein the lock detector is
further operative to compare the received energy of the received signal to a first energy
threshold.
10. (Original) The transceiver of claim 8, wherein the lock detector comprises:
a lock filter operative to filter the received signal; and
a filter adjustment means operative to adjust the lock filter in response to the lock
detector.

11. (Previously Presented) The transceiver of claim 10, wherein the filter adjustment means waits a predetermined time period prior to adjusting the lock filter.
12. (Withdrawn) A method for tracking a mobile station in a wireless communication system, comprising:
- determining if the mobile station is in soft hand-off;
 - ignoring a lock state of a rake antenna if the mobile station is in soft hand-off; and
 - transmitting a predetermined power control pattern if the mobile station is not in soft hand-off.
13. (Withdrawn) The method of claim 12, further comprising:
- adjusting the power control as a function of received signal energy if the mobile station is in soft hand-off.
14. (Currently Amended) A wireless apparatus, comprising:
- a filter ~~means~~ to filter a received signal from a first propagation path;
 - a comparator having a plurality of inputs, and at least one output ~~comparison means~~ operative to compare the received signal to a threshold value if a first finger is out of lock; and
 - filter adjustment means operative to adjust the filter means in response to the comparison means.
15. (Currently Amended) The wireless apparatus according to claim 14, wherein said filter adjustment means comprises:
- ~~a comparator having a plurality of inputs, and at least one output;~~
 - a threshold generator having at least one output operably connected to a first of said plurality of inputs of said comparator; and
 - an AND gate having a plurality of inputs and at least one output, wherein a first of said plurality of inputs is operably connected to said at least one output of said

comparator and said at least one output is operably connected to a first of said at least one input of said filter.

16. (Currently Amended) The wireless apparatus according to claim 14, wherein said filter ~~means~~ is an impulse response filter.

17. (Currently Amended) The wireless apparatus according to claim 14, wherein said filter adjustment means comprise:

a communication bus;

a threshold calculation unit; and

a first threshold generator operably connected to ~~an input~~ one of said inputs of said comparator and operably connected to said threshold calculation unit via said communication bus, wherein said first threshold generator is adapted to dynamically change.

18. (Previously Presented) The wireless apparatus according to claim 15, wherein said filter adjustment means further comprises:

a timer having at least one output, wherein said output is operably connected to a second of said plurality of inputs of said AND gate.

19. (Currently Amended) A lock detector, comprising:

a lock filter having at least one input and at least one output;

a first comparator having a plurality of inputs, and at least one output, wherein a first of said plurality of inputs is operably connected to said at least one output of said lock filter;

a first threshold generator having at least one output operably connected to a second of said plurality of inputs of said first comparator;

a second comparator having a plurality of inputs, and at least one output;

a second threshold generator having at least one output operably connected to a first of said plurality of inputs of said second comparator; and

an AND gate having a plurality of inputs and at least one output, wherein a first of said plurality of inputs is operably connected to said at least one output of said second comparator and said at least one output is operably connected to a first of said at least one input of said lock filter.

20. (Previously Presented) The lock detector according to claim 19, wherein said lock detector further comprises:

a timer having at least one output, wherein said output is operably connected to a second of said plurality of inputs of said AND gate.

21. (Previously Presented) The lock detector according to claim 19, wherein said lock filter is an infinite impulse response filter.

22. (Previously Presented) The lock detector according to claim 19, wherein said first threshold generator is operably connected to a threshold calculation unit by a communication bus, whereby said first threshold generator is adapted to dynamically change.

23. (New) A rake receiving means with multiple fingers, comprising:
means for determining a lock state for a first finger of the multiple fingers;
means for determining a comparison of received signal energy for the first finger to a threshold value if the first finger is out of lock; and
means for adjusting a lock filter for processing signals received on the first finger in response to the comparison.

24. (New) The rake receiving means as in claim 1, further comprising:

means for waiting a first time period if the first finger is out of lock before adjusting the lock filter.

25. (New) The rake receiving means of claim 1, wherein adjusting the lock filter further comprises:

means for providing an output of the lock filter equal to the received signal when the energy of the received signal is greater than the threshold; and

means for increasing an energy level of the lock filter when the energy of the received signal is less than the threshold.

26. (New) The rake receiving means of claim 1, further comprising:

means for determining a comparison of filtered signal energy for the first finger to a second threshold after adjusting the lock filter; and

means for reassigning a path to the first finger in response to the comparison.

27. (New) The rake receiving means of claim 4, further comprising:

means for maintaining path assignments to the multiple fingers for a predetermined time period.

28. (New) The rake receiving means of claim 1, further comprising:

means for determining if a transmitter of the received signal is in soft handoff; and

means for providing power control instructions as a function of the energy of the received signal if the transmitter is in soft handoff.

29. (New) The rake receiving means of claim 5, further comprising:

means for instructing the transmitter to gradually adjust transmit power.